# FINAL REPORT

# COMBAT READINESS

OF

DETACHMENT "C"

PROJECT "Aquatone"

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# ADNEX I

#### TAB A

#### Barrative of Formal Training

# SECTION I - Operations & Training

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- 1. Training of Detachment "C" began on 6 August 1956 with the arrival of four (4) pilets. Four more pilets reported on 20 August and the last three on 10 September. the Detachment Commander reported on 20 August. Operations staff officers arrived between this date and 5 October. All pilots were TDY for approximately 10 days during the training period to receive survival training. The arrival of pilots in groups of three or four on pre-planmed dates simplified the training staff's problems considerably.
- 2. Two of the eleven rilots were lost during training; one was killed in a U-2 crash on 31 August, and the other resigned on 26 September.
- 3. The most serious problem encountered in the training of this unit was a shortage of sireraft caused by loss of two sireraft in crashes on 30 and 31 August. Also sireraft muster 356 developed a very bad stall characteristic soon after acceptance. Approximately one month was lost while extensive flight and ground testing was made. The final fix on this grables was to change both wings.
- 4. Six pilots and completed the training program before the USCH started. One pilot accomplished his last training mission during the USCE. The remaining two (ilots each require three long-range missions and will complete training prior to 15 November.
- 5. Approximately seventy bours of formal ground school was completed by all pilots.
- 6. Average flying training statistics on the seven pilots participating in the WCE are:

	Flying hours scheduled in the T-33	5:30
<b>b.</b>	Mying hours flown in the T-33	5:30
G.	Flying hours seneduled in the U-2	53:00
đ.	Hours flown in the U-2	54:00
•.	Missions scheduled	15
f.	Missions flown	16 2/3

7. The Detachment Commander and one flight commander have been checked out in the U-2. The Operations Officer and the other flight commander are in T-33 transition and will be checked out in the U-2 when proficiency permits.

- 8. Although delayed arrival of staff officers and shortage of sireraft should the training down semeshat, training was completed in only two and enc-bulf menths. Noch credit should be given to and his staff for getting organized and operating as a highly efficient unit in a very short poriod of time.
- 9. Although high eltitude flame-outs occurred frequently, professional handling of the situation by the pilots resulted in few aborts. Since all training flights in the U-2 are with the -37 engine, the relatively high flame-out rate is not considered significant.

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AUNEX I

TAR "A"

# Marratire of Fermi Draining

# SECTION II - Neintenance and Supply

#### 1. Maintenames

- a. The establishment of Detachment "C" maintenance organization and procedure was seriously hompered during the early portion of the training program due to shortages of key supervisory personnel, shortage of sireraft and failure of Project Readquarters to furnish maintenance directives. The shortage of sireraft was enused by a ground loop on number 355, 30 August, and crush of number 350 on take-off, 31 August.
- wher and through October up to the start of the USCH. This improvement was brought about with the arrival of key personnel who, due to their high level of experience, quickly organized the Detachment "C" maintenance organization and implemented proper maintenance procedures. Inaumuch as Project Headquarters never furnished the maintenance directives, they were published by the Director of Haterial. Project Headquarters Directive 66-2 was revised and published as a Detachment "C" SOP pending receipt of the revision from Project Headquarters. Due to lack of implementation of this directive, about and malfunction data and information has been sparse. Detachment "C" has recently appelented and efficer as operations analyst. This officer is beginning to accomplate some information on the reliability of auxiliary equipment which will be very useful to the detachment commander.
- e. Forms maintenance has been good, maintenance of aircraft status has been unsatisfactory, but is being corrected. There are only sixteen (16) medifications outstanding on two aircraft, 356 and 357, which are permanently assigned to the detachment. Ground powered equipment has remained in commission approximately 1805 of the time.
- d. There have been few sirfrems malfunctions, the two most important of which was a forward/landing year bulkhead failure, due to an error in the Sakersfield assembly line on their first aircreft, and the left wing drop and youing condition on 356. This condition was corrected by changing the wings.
- e. There are three major problems on the J-57-37 engine which have cocurred during the formal training phase. These are, the old problem of flame-outs, executive all consumption and oil leakage. These problems are discussed as follows:
  - (1) Figure-ents. A total of 25 figure-outs have been experienced. Causes for the figure-outs are difficult to determine but are known to result from pilot technique as well as from

engine and/or accessory malfunctions. Hany adjustments have been made to fuel controls, and in one case it was necessary to change the engine and return to everhaul. To date no positive solution has been found to climinate flame-outs on -37 engines. The dash 31 engine should climinate most flame-outs, if experience follows that of the other detachments.

- (2) Excessive all consumption. This condition is caused by all less through the number 3 bearing seal. A fix, consisting of application of pressure on the number 3 bearing seal has previously remedied this condition. It appears that PMM has no program to call back engines already in the pipeline to apply the fix. Consequently, engines furnished to the program without the fix experienced excessive oil consumption.
- (3) Gil leakage. This is a new problem on the dash 37 engine. After approximately five minutes of engine run on a new engine installation, oil starts running out of the front accessory case water plug drain. Preliminary checking by PMW representative, in conjunction with PAG, has failed to reveal the source of the oil look. At present, this appears to be a problem that can be solved only at overheal.
- f. Analysis of information gathered by the Detachment "C"
  Operations Analysis Officer, indicates that drift sights, hand centrels,
  tracking ceneras and "A" configurations have been approximately 50%
  effective. Three runs on the "B" configuration have been 50% effective.
  effective. Tests to date on the 2-Y configuration have been 50% effective.
- $\varepsilon$ . The Detachment "C" maintenance organisation is rated effective everall for the formal training phase.

# 2. Supply:

a. The equipment and spares for Detachment "C" as authorized on the Special List of Equipment (SLOE) and the Flynney Kit Listing (FAK) were to the extent available, ascembled and binned at the Project Depot Warehease, Galifornia during the period 16 July to 19 August 1950. Five (5) supply personnel of the | Support Wing (NCOIS Detachment "C" PAK Section) assisted the Project Depot in accomplishing this function. b. The equipment and spares that were assembled and binned at Depot were similifted during the week of 19 August 1956. Action was taken by the Support Wing representatives to establish the supply operation in accordance with the Project Headquarters 67 series directives. During the initial phase of training only two (2) supply personnel of Detachment "C" were available. They were the

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e. The fallowing reflects the supply section authorized manning as of 22 October 1956 and dates personnel were assigned when applicable:

Title	Strake	Antherized	Pate Assisted	Xane
Supply Officer	Captain	1	15 Oct 56	
Supply Supervisor	M/Set	1	13 Ave 56	
Supply Specialist	A/1c	1	24 Sep 56	
Warehouse Supervisor	H/Set	1	21 Aug 56	
Warehouse Specialist	5/Set	1	8 Sep 56	
Warehouse Specialist	3/Sgt	1	23 Oct 56	
Warehouse Specialist	3/3gt	1	Nome	
Clock Typiat	1/1C	1	30 Aug 56	

- d. As can be noted above there is one (1) Warehouse Specialist short. Current Operation of the supply section does not require three (3) Warehouse Specialists. The supply section sould use, very advantageously, a Supply Records Specialist in the place of the Warehouse Specialist. Two (2) Stock Record Specialist are required in order to properly maintain supply records as there are two (2) separate sets of stock record eards, one (1) in the SLOE Section and one (1) in the FAK Section. The supply personnel shortage in this field should be rectified prior to deployment based on the experience of the units currently everseas which indicated a considerable heavier supply work load at the everseas site. Director of Material for Detachment "C" is initiating change request to T.O. deleting one Warehouse Specialist and requesting one Stock Record Specialist.
- e. The equipment and spare support provided by the Special List of Equipment (SLOK) and the Flyanay Kit Listing (FAK) authorisation during the training phase was considered entisfactory. Existing shortages are being constantly monitored by the Support Wing. Special follow-up is being conducted on all critical shortages. The shortages of oxygen servicing equipment was one of the most critical deficiencies. Oxygen trailers could not be used to service aircraft without medification. At present date one trailer oxygen has been medified and the other is at the contractors for medification. Other marginal areas include the special personal equipment support and initial shortages of certain contractor items as noted by lew percentage on attached percentage charts. Project Headquarters has been advised of all shortages in personal equipment. Project Headquarters has assumed responsibility for supply of shortages that exist in FAK and SLOK Section of Detachment "C".
- f. The attached charte reflect the status of equipment and spares on hand against authorisations as of 22 October 1956.

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	PERCEN	NTAGE OF	FLYAWAY KIT LINE	I Tems	ON HAN	1D
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AIRBORNE COMMO	AUTHORIZED:		WD: B	93.45		ar A
SPECIAL PERSONAL EQUIPMENT	AUTHORIZED:	79 O	I MAID:	55.7%		
COMMON HARDWARE	AUTHORIZED:	1019 0	1 MAND: 1002	98.33		
GROUND POWERED EQUIPMENT	AUTHORIZED:	200 0	I AMD ( 151	+ + +		
OVERALL PERCENTAGE	AUTHORIZED:	.292 <b>3</b> 01	i IAND: 2698	92.38		
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	PERCEN	OF	FLYAW	AY KIT T	OTAL	ITEMS	ON HAND						
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As of 22 Oct 56 PERIOD	10	20	30	4	ю	50	60	70	80	90	100		
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# ANNEX I

# NARRATIVE REPORT OF TRAINING

# TAB "A" - Fernal Training

SRC I - Operations and Training

580 II - Maintenance and Supply

# TAB "B" - USON

SEC I - Operations and Training

SEC II - Maintenance and Supply

# ANNEX I

#### TAB B

# Marrative of Unit Migulated Combat Mission

# SECTION I - Operations and Training

The	mit	Formal training for this unit was completed on 19 October 1956. Simulated Combat Mission to determine the overall effectiveness
oi of	the or the re	ganization was scheduled to commence on 24 (ctober. Evaluation sults was in accordance with

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- 2. Project Beadquarters planned and directed all missions in accordance with their standard operating doctrine for combat missions. Mission results were analized by detachment and wing personnel.
- 3. Eight missions were directed by roject headquarters. One of these was cancelled due to a shortage of aircraft. The detachment normally would have had four aircraft available during the BACY. However, due to engine problems which have been experienced recently and also due to one aircraft being damaged when an equipment hatch was lost in flight, only three aircraft could be used. Of the seven sortles launched, six completed the mission as briefed. One experienced a flame-out over simulated enemy territory. Two flame-outs occurred during let-down over home base. The same aircraft was involved in all three flame-outs.
- 4. Mission preparations, briefings, etc. were conducted in an outstanding manner by the unit.
- 5. Fifty-eight photographic targets were designated by Project Headquarters. Of these, 13 could not be covered recause of weather and 4 were lost due to a flame-out in the target area. Deviation from assigned flight line on 38 of the remaining 41 targets was less than five siles.
- 6. Sixty celestial observations were made with an average 0.3. of 11.9 NM. on mission 1036, accomplished 11 shots with a 0.E.A. of 5.9 NM.
  - 7. A brief narrative of each day's operations follows:
- a. On 24 Cetober, two sorties were scheduled and launched. One was I minute and 59 seconds late on take-off due to an auto-pilot malfunction which developed in the pilot's pre-take-off check. Foth missions were flown as briefed.
- b. On 25 October, three missions were launched. One take-off was delayed 5 minutes and 20 seconds by a popped generator circuit breaker located in the equipment bay. This required removal of the natch after

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engine start. Two missions were completed as briefed. One pilot experienced a flame-out in the target area. He out out 4 targets after he had made his re-start and completed the remainder of the mission.

- c. On 26 October, two sorties were launched. One take-off was delayed 7 minutes and 50 seconds by a face-plate heating system failure shortly before take-off. Both missions were flown as briefed with excellent results.
- 8. Statistics of each mission as it was flown and scored are contained in Annexes III. IV and V. The overall operational results of the USCS are considered excellent with the exception of the relatively high recommissance equipment failure rate shown in Tab C of Annex III. Much of this can be attributed to the fact that most cameras are newly delivered from the factory and have not had an extensive operational shake-down.

#### ANNEX I

#### TAB "B"

## Narrative of Unit Simulated Combat Mission

SECTION II - Maintenance and Supply.

## 1. Maintenance:

a. Maintenance organization: The overall rating of the maintenance organization is effective. Fertinent areas which are considered worthy of mention are as follows:

#### (1) Deficient areas:

- (a) It was recommended that pilots be required to enter all malfunctions encountered during flight in the DD 781-2 form. These write-ups should include remarks on the airframe, engine and auxiliary equipment (cameras, camera lights, driftsights, sextants, etc.).
- (b) It was recommended that emphasis be placed on waintaining sireraft and auxiliary equipment status on a current basis. This is a primary responsibility of the maintenance supervisor assisted by the branch chiefs and should be closely monitored by the Directe of Material.

### (2) Noteworthy areas:

- (a) Turn around of aircraft. Due to loss of aircraft number 35% and 355 early in the program and flight test difficulties on aircraft number 35% (due to engine oil leakage, etc.), only three (3) aircraft, numbers 344, 356 and 361 were available to Detachment "C" during the USCH. An outstanding job was done by all maintenance personnel in turning these aircraft around each day for the succeeding day's flight, with a minimum of difficulty.
- (b) Maintenance of ground support equipment. Maintenance of this equipment is considered outstanding.
- (c) Cooperative attitude. The sincers attitude of all personnel of the aircraft maintenance organization and the high degree of cooperation between all maintenance branches and personnel is commendable.
- (3) Action was taken by the Director of Hateriel during the USCM to correct the difficiencies noted above.

- b. Planning and coordination between operations and maintenance functions is rated effective overall. Teamwork between these two functions is commandable.
  - c. Reliability of eircraft and equipment:
    - (1) Airframe. Only two (2) discrepancies were encountered on the airframe during the USCE. On aircraft number 361 the main gear indicator showed an unsafe condition with the gear retracted. This was caused by an improper fit at the drift sight bubble faring, which was adjusted. The second discrepancy occurred on aircraft number 356 when the generator feild circuit breaker popped just prior to take-off. This was corrected by pushing in the circuit breaker. This circuit breaker is located in the camera bay in such a position that it was extremely difficult to reach with cameras installed, and this caused a late take-off.

# (2) Engines:

- (a) Only four (4) engine malfunctions occurred during the PSCM, all of which were on aircraft number 344. On 24 October a flame-out occurred at base plus 14, was re-started and flamed out again on let down. No discrepancies which could be corrected were found upon return. On 25 October another flame out occurred at base plus 14 and again on let down. The surge bleed valve governor was replaced and pressure sensing line tightened, but did not correct the condition. This engine has a history of flame-outs, has approximately 100 hours accrued, and is being returned to overhaul.
- (b) Gil consumption varied from 3 to 17 quarts, or an average of 9.7 quarts per sortie. Capacity of the oil tanks is 56 quarts.
- (c) One engine was built-up at the beginning of the USCM, and by the end of the USCM, a second built-up engine was nearing completion.
- (3) Auto-pilot. Five malfunctions occurred on auto-pilots.
  Two on aircraft number 344 and three on aircraft number 361. These discrepancies were all in the mach sensor, except one on aircraft number 344, requiring replacement of suplifiers and adjustments. The other discrepancies on aircraft number 344, was a short circuit in the sileron tria tab indicator which made

- it impossible to disconnect the auto-pilot just prior to take off. The trim tab indicator was disconnected and take off made over a minute late.
- (4) Sextants and drift sights. There was one sextant discrepancy and one drift sight discrepancy. On the sextant, the averager was inoperative and was removed and replaced. The drift sight problem was caused by a bent hand control which was removed and replaced.
- (5) Communications. Communications equipment gave a minimum of difficulty. One ARC-34 went out after the mircraft was prepared, but was changed and did not affect the take-off. Two radio compasses were 4 to 6 degrees off track and required re-swinging.

#### (6) Cameras.

- (a) A-2 configuration malfunctions. There we e three
  (3) magazine malfunctions, one requiring a magazine
  to be returned to the factory, one with film tracking improperly which was corrected by spring tension
  adjustments, and a film tear believed to be by an
  interruption of power during a flame-out. There
  were three (3) other malfunctions, one a "B" light
  blinking -- requiring adjustment of a microswitch,
  a "C" light out, again believed to be caused by a
  flame-out, and a "B" shutter and oblique drive
  meter failure, requiring return to the factory for
  repair.
- (b) Tracker malfunctions. There were two (2) tracker melfunctions, one, a tracker stopped sycling which was corrected by replacing a relay rack and the second caused by a defective optical system, which required replacement.
- (e) "B" Configuration malfunction. Of the two (2) "B" configurations installed, neither was successful. On the first one, the Einivib (vibration detector) was left off intentionally. In doing so, certain circuiting problems were created but not realized, and the configuration malfunctioned. Additional experience and probable design improvements appear to be required on this configuration. The second malfunction was caused by a jammed case drive in the oblique magazine. This magazine is being returned to the factory for repair.

- (7) The overall aircraft in-consission rate during the USCH averaged 74.5%.
- (8) Ground support equipment. All essential equipment except one exygen cart was in place. One exygen cart was borrowed from the LAC test unit during the USCH. While all exygen carts had been previously furnished, it was necessary to return one for modification by LAC. The ground support equipment personnel did an outstanding job of maintenance of their equipment during the test. The average incommission rate of ground powered equipment during the USCH was 99.6%.

### d. Assignment and Training of Haintenance Personnel:

- (1) lockheed. All authorized LAC ensonnel are assigned and in place. Experience level of LAC personnel remains high for Detechment "C", the same as for previous detachments, averaging approximately 15 years of extensive aircraft agintenance experience. Personnel assigned are versatile and qualified as a unit in all specialties required by the U-2 aircraft.
- (2) Hycon. All authorized LaC personnel are in place. The experience level of these people is high but varied. The average experience in industry averages over ten years. Only two sen have degrees in engineering, but exphasis has been placed on providing sore key people with previous airborne camera maintenance experience. As a result, installation and removal of cameras, and overall coordination with other branches in the maintenance organization has posed no problems.
- (3) Communications. The average experience level of the communications personnel varies from three to ten years, the average experience level being approximately seven years.

## 2. Supply:

a. During the USCK a normal supply operation continued: Supplies were received, binned and accountability established. Issues were made and reparables were received, processed and shipped to depot. Administrative procedures were carried out in an effective manner. "Il personnel assigned to Detechment "C" supply were present for duty and participated in work load during the UCCM. The shortage of one (1) Stock Records Specialist, AFSC 64152, was compensated for by other personnel of the Supply Section assuming additional workload. The authorized manning is considered the minimum requirement, and if supply personnel shortages still exist on arrival at overseas site, a antisfactory supply operation for an extended period of time in accordance with Project Directive 67 series cannot be expected.

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b. During the USCH, the Flyaway Kit was considered effective on the following support statistics:

-	Total Items	Mne Items
Requested	272	55
Issued	272	55
Percentage	100%	100%

considered significant. During a three day work period; 19, 22, and 23 october, considerable maintenance work was accomplished and is reflected by the following Flyaway Fit statistics for this period.

	Total Items	Mne Items
Requested	180	46
Issued	179	45
Percentage	99.4%	97.84

d. The Unit Mission Equipment effectively supported the operation except for one (1) trailer, oxygen, that is at the contractors at the present time for modification. During the training phase and the USCE one (1) oxygen trailer at the test site was utilized to sugment resucross of Detachment "C" to service aircraft. Their equipment shortages of lesser importance are being closely monitored to insure all items possible are provided prior to devloyment.